

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10697557
	Filing Date		2003-10-31
	First Named Inventor	Theodore Rappaport	
	Art Unit	2128	
	Examiner Name	Akash Saxena	
	Attorney Docket Number	001.0128C1D1	

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6754488	B1	2004-06-22	Won et al	
	2	6772103	B1	2004-08-03	King	
	3	6785547	B1	2004-08-31	Heiska et al	
	4	6791571	B1	2004-09-14	Lamb	
	5	6795858	B1	2004-09-21	Jain et al	
	6	6804578	B1	2004-10-12	Ghaffan	
	7	6901051	B1	2005-05-31	Hou et al	
	8	6931364	B1	2005-08-16	Antuma	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

9	6947708	B2	2005-09-20	Fatlouch	
10	7023356	B2	2006-04-04	Burkhardt et al	
11	7054643	B2	2006-05-30	Trossen et al	
12	7055107	B1	2006-05-30	Rappaport et al	
13	7096034	B2	2006-08-22	Zhang et al	
14	7124101	B1	2006-10-17	Mikurak	
15	7162507	B2	2007-01-09	Carter	
16	7235766	B2	2007-06-26	Shur et al	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S. PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20010051503	A1	2001-12-13	Lush	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10697557
Filing Date		2003-10-31
First Named Inventor	Theodore Rappaport	
Art Unit	2128	
Examiner Name	Akash Saxena	
Attorney Docket Number	001.0128C1D1	

2	20020023244	A1	2002-02-21	Hatanaka et al	
3	20020028681	A1	2002-03-07	Lee et al	
4	20020030600	A1	2002-03-14	Stamer et al	
5	20020046259	A1	2002-04-18	Glorkian	
6	20020075825	A1	2002-06-20	Hills et al	
7	20020082859	A1	2002-06-27	Lancos et al	
8	20020095486	A1	2002-07-18	Bahl	
9	20020177982	A1	2002-11-28	Boulouednine et al	
10	20030023411	A1	2003-01-30	Witmer et al	
11	20030050878	A1	2003-03-13	Rappaport et al	
12	20030229478	A1	2003-12-11	Rappaport et al	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

13	20030232588	A1	2003-12-18	Aljadeff et al	
14	20040002364	A1	2004-01-01	Trikkonen et al	
15	20040017790	A1	2004-01-29	del Prado et al	
16	20040038683	A1	2004-02-26	Rappaport et al	
17	20040072577	A1	2004-04-15	Myllymaki et al	
18	20040077359	A1	2004-04-22	Bernas et al	
19	20040090943	A1	2004-05-13	da Costa et al	
20	20040133415	A1	2004-07-08	Rappaport et al	
21	20040143428	A1	2004-07-22	Rappaport et al	
22	20040202196	A1	2004-10-14	Sindhushayana et al	
23	20040211888	A1	2004-10-28	Shur et al	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

24	20050253751	A1	2005-11-17	Feisst et al	
----	-------------	----	------------	--------------	--

If you wish to add additional U.S. Published Application citation information please click the Add button [Add](#)

FOREIGN PATENT DOCUMENTS

[Remove](#)

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button [Add](#)

NON-PATENT LITERATURE DOCUMENTS

[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	SKIDMORE, "SMT Plus 1.0 user's manual", August 1996.	<input type="checkbox"/>
	2	ZHANG, "Formulation of multiple diffraction by trees and buildings for radio propagation predictions for local multipoint distribution service", J. Res. Natl. Inst. Stand. Technol., 1999.	<input type="checkbox"/>
	3	FELLNER, D., "Radio wave propagation (CARPET)", Computer Graphics, Dept. of Computer Science, 1998.	<input type="checkbox"/>
	4	RAPPAPORT et al., "The future of wireless communications", MPRG, 1999.	<input type="checkbox"/>
	5	ULFFE et al., "Measuring the 2.4 GHz Band for indoor wireless communications", Wireless design laboratory, 2000.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

6	HASHEMI, H., "The indoor radio propagation channel", IEEE, Vol. 81, No. 7, July 1993.	<input type="checkbox"/>
7	LIU et al., "Modelling microcellular radio wave propagation", IEEE, May 1996.	<input type="checkbox"/>
8	FELLNER, et al., "MRT - A tool for simulations in 3D geometric domains", ESM, 1997.	<input type="checkbox"/>
9	STAMM et al., "A prototype system for light propagation in terrains", IEEE, 1998.	<input type="checkbox"/>
10	"EAC-50 Repeater System for In-Building Coverage", Installation and Operation Manual, Allen Telecom Company, 2000 (Referred to as EAC-50).	<input type="checkbox"/>
11	RAPPAPORT, T., et al., "Site Planner 3.0, User's Manual", Wireless Valley Communications, Inc. 1998.	<input type="checkbox"/>
12	BERTONI, H., et al., "UHF Propagation Prediction for Wireless Personal Communications", Proceeding of IEEE, VOL. 82, No. 9, Sept. 1994, pp. 1333-1359	<input type="checkbox"/>
13	HONCHARENKO, W., et al., "Mechanisms Governing UHF Propagation on Single Floors in Modern Office Buildings", IEEE Transactions on Vehicular Technology, Vol. 41, NO. 4, November 1992, pp. 496-504	<input type="checkbox"/>
14	"SMT Plus: Site Modeling Tool. A Software Tool for Planning Indoor Wireless Systems." 2001. Printed from http://www.mprg.org/research/smt/smt.shtml on 3/5/04.	<input type="checkbox"/>
15	"MPRG Industrial Affiliate Program." 2001 Printed from http://www.mprg.org/partnerships/affiliate.shtml on 3/5/04.	<input type="checkbox"/>
16	"Wireless Research Leads to Indoor Planning Tool," EE Connection, Feb. 1997. Printed from http://w.ecpe.vt.edu/ecenews/feb97/smt.html on 3/5/04.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

17	"VTIP Disclosure No., 96-013." Virginia Tech Intellectual Properties, Inc. 1997-2001. Printed from http://www.vtip.org/licensing/disclosures/96-03.htm on 3/5/04.	<input type="checkbox"/>
18	"Communication Products Special Section." EDN Access, Aug. 1, 1996. Printed from http://www.e-insite.net/ednmap/archives/1996/080196/16dfl.htm on 3/5/04.	<input type="checkbox"/>
19	PANJWANI et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments." IEEE Journal of Selected Areas in Communication. April 1996. pp.420-430.	<input type="checkbox"/>
20	SKIDMORE et al. "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multifloored Indoor Environments: SMT Plus." 5th Int'l Conference on Universal Personal Communications, Sept.29 - Oct.2, 1996. pp.646-650	<input type="checkbox"/>
21	SKIDMORE et al. "A Comprehensive In-Building and Microcellular Wireless Communication System Design Tool." The Bradley, - Dept. of Electrical Engineering, Virginia Tech Univ. MPRG-TR-97-13. June 1997.	<input type="checkbox"/>
22	VALENZUELA, R A., "A ray tracing approach to predicting Indoor Wireless Transmission", IEEE 1993	<input type="checkbox"/>
23	SANTARINI, M., EETimes article "Cadence offers XML-based PCB library tool" , Published 04/24/2000 Pgs. 1-4, http://www.eetimes.com/story/OEG20000424S0031	<input type="checkbox"/>
24	WELCH, B.,et al., "Web Enabling Applications" Fifth Annual Tcl/Tk Workshop USENIX, 1997, Pp. 189-190 of the Proceedings (4 pg printout from web)	<input type="checkbox"/>
25	Website "WISE Design of Indoor & Outdoor Wireless Systems" - http://web.archive.org/web/200212190834211 www.bellabs.com/org/wireless1wsext.html - Dec 2002	<input type="checkbox"/>
26	FORTUNE, S.,et al., "WISE design of indoor wireless systems: practical computation and optimization", Publication. Date: Spring 1995 Volume: 2 , Issue: 1 pgs 58 - 68	<input type="checkbox"/>
27	HANSEN, W., "Rendering Tcl/TK windows as HTML", March 5 2003 - Carnegie Mellon University	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

28	LANDRON, O. et al., "A comparison of theoretical and empirical reflection coefficients for typical exterior wall surfaces in a mobile radio environment, Antennas and Propagation", IEEE Transactions pgs. 341-351, Vol. 44, Issue: 3, Mar 1996	<input type="checkbox"/>
29	VALENZULA, R., et al., "Estimating local mean signal strength of indoor multipath propagation", Vehicular Technology, IEEE Transactions , pgs 203-212, Volume: 46, Issue: 1, Feb 1997	<input type="checkbox"/>
30	SKIDMORE et al. "Towards Integrated PSEs for Wireless Communications: Experiences with the S4W and SitePlanner Projects". October 28, 2003.	<input type="checkbox"/>
31	SKIDMORE, et al. "Towards Integrated PSEs for Wireless Communications: Experiences with the S4W and SitePlanner Projects". ACM SIGMOBILE Mobile Computing and Communications Review. Vol.8, Issue 2. April 2004. pp.20-34.	<input type="checkbox"/>
32	EDX, "Mircocell/Indoor Module", April 2000. pg.1-63.	<input type="checkbox"/>
33	Trademark, "Siteplanner" 1999. pg.1	<input type="checkbox"/>
34	NEWHALL, W.G., "Wideband Propagation Measurement Results, Simulation Models, and Processing Techniques for a Sliding Correlator Measurement System". Dissertation. pg.1-159.	<input type="checkbox"/>
35	RAPPAPORT, T.S., "Last-Mile Wireless Propagation Modeling, Measurement, & Prediction" HP. 1998. pg.1-20.	<input type="checkbox"/>
36	EDX Signal Pro. 1996. pg. 1-13.	<input type="checkbox"/>
37	EDX Data File Format Specifications. July 2001 pg.1-24.	<input type="checkbox"/>
38	BORST, S., et al., "Wireless Simulation and Self-organizing Spectrum Management" Bell Labs Technical Journal. 1997 pg.81-98	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10697557
Filing Date	2003-10-31
First Named Inventor	Theodore Rappaport
Art Unit	2128
Examiner Name	Akash Saxena
Attorney Docket Number	001.0128C1D1

39	Cambridge Research Associates; "Synthetic Vision Systems" 1999 pg. 1-31	<input type="checkbox"/>
40	HUANG, Y.P., "Triangular Irregular Network Generation and Topographical Modeling", 1989 Computers-In-Industry, vol.12, no.3, pg.203-213.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.